

What is claimed is:

- 1 1. A computer system, said computer comprising:
  - 2 a bus;
  - 3 a central processing unit;
  - 4 computer system memory, said computer system memory being connected to said
  - 5 central processing unit; and
  - 6 a memory management mechanism stored in said computer system memory, said
  - 7 memory management mechanism adjusting transaction priority to decrease transaction
  - 8 time and thereby permit more efficient journal space utilization.
- 1 2. The computer system of claim 1 wherein said memory management mechanism
- 2 monitors elapsed time of outstanding transactions and selects an oldest transaction
- 3 therefrom, said memory management mechanism then adjusting a priority of said oldest
- 4 transaction so that said oldest transaction is able to complete processing more quickly.
- 1 3. The computer system of claim 2 wherein said memory management mechanism is a
- 2 commit control mechanism.
- 1 4. The computer system of claim 2 wherein said memory management mechanism
- 2 continually monitors elapsed time of said outstanding transactions and selects therefrom a
- 3 current oldest transaction for which to adjust priority such that more than one transaction
- 4 can operate with an adjusted priority.
- 1 5. The computer system of claim 2 wherein said transaction involves more than one job
- 2 and wherein one of said more than one job executes on a first computer system and
- 3 another of said jobs executes on a second computer system.

1       6. A program product, said program product comprising:

2            signal bearing medium; and

3            a memory management mechanism stored in said computer system memory, said

4       memory management mechanism adjusting transaction priority to decrease transaction

5       time and thereby permit more efficient journal space utilization.

1       7. The program product of claim 6 wherein said memory management mechanism

2       monitors elapsed time of outstanding transactions and selects an oldest transaction

3       therefrom, said memory management mechanism then adjusting a priority of said oldest

4       transaction so that said oldest transaction is able to complete processing more quickly.

1       8. The program product of claim 6 wherein said memory management mechanism is a

2       commit control mechanism.

1       9. The program product of claim 6 wherein said memory management mechanism

2       continually monitors elapsed time of said outstanding transactions and selects therefrom a

3       current oldest transaction for which to adjust priority such that more than one transaction

4       can operate with an adjusted priority.

1       10. The program product of claim 6 wherein said oldest transaction involves more than

2       one job and wherein one of said more than one job executes on a first computer system

3       and another of said jobs executes on a second computer system.

1 11. A computer implemented method, said method comprising the steps of:

2 receiving a journal related request; and

3 adjusting transaction priority to decrease transaction time and thereby permit more

4 efficient journal space utilization.

1 12. The method of claim 11 wherein said adjusting step further comprises:

2 monitoring elapsed time of outstanding transactions;

3 selecting an oldest transaction from said outstanding transactions; and

4 adjusting a priority of said oldest transaction so that said oldest transaction is able to

5 complete processing more quickly.

1 13. The method of claim 12 wherein said monitoring step comprises continually

2 monitoring elapsed time of said outstanding transactions and wherein said selecting step

3 comprises selecting a current oldest transaction from said outstanding transactions such

4 that more than one transaction can be adjusted to operate with an adjusted priority in said

5 adjusting step.

1 14. The method of claim 11 wherein said oldest transaction involves more than one job

2 and wherein one of said more than one job executes on a first computer system and

3 another of said jobs executes on a second computer system.

1 15. A computer implemented method, said method comprising the steps of:

2 receiving a journal related request for a journal;

3 adjusting transaction priority for a specific transaction to decrease transaction time of

4 said transaction; and

5 deallocating memory associated with said specific transaction upon completion of said  
6 specific transaction.

1 16. The method of claim 15 wherein said adjusting step further comprises:

2 monitoring elapsed time of outstanding transactions;  
3 selecting an oldest transaction from said outstanding transactions; and  
4 adjusting a priority of said oldest transaction so that said oldest transaction is able to  
5 complete processing more quickly.

1 17. The method of claim 16 wherein said monitoring step comprises continually  
2 monitoring elapsed time of said outstanding transactions and wherein said selecting step  
3 comprises selecting a current oldest transaction from said outstanding transactions such  
4 that more than one transaction can be adjusted to operate with an adjusted priority in said  
5 adjusting step.

1 18. The method of claim 15 wherein said oldest transaction involves more than one job  
2 and wherein one of said more than one job executes on a first computer system and  
3 another of said jobs executes on a second computer system.